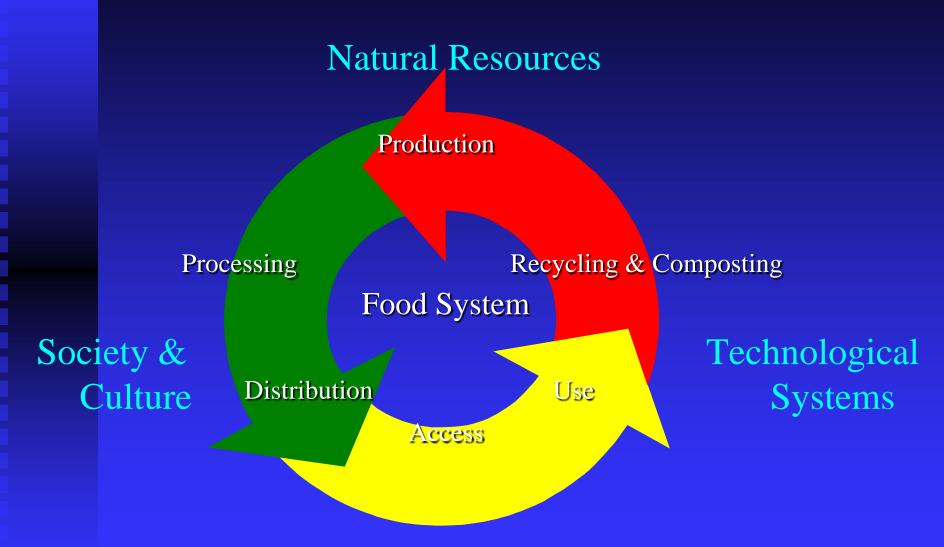
We are What We Eat Diet Therapy A Strong Support to Family Physicians

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16th Annual Conference of PSFP 25 Dec 2005

"What is a food system?"

----- Government/Public Policies ------



Adapted from: Dahlberg, K. Local and regional food systems. A key to healthy cities. Available at: http://homepages.wmich.edu/~dahlberg/F14.pdf

Sustainability

"Society's ability to shape its economic and social systems to maintain both natural resources and human life."

<u>Source:</u> Position of the American Dietetic Association: Addressing world hunger, malnutrition, and food insecurity. *J Am Diet Assoc* 2003;103:1046-1047.

Summary of key trends threatening the sustainability of the US food system (cont'd)

		Economic	Social	Environmental
Co	onsumption	-Costs of diet- related diseases increasing	Obesity ratesrisingDiet deviatesfrom nutritional	- 26% of edible food wasted
			recommendations	

Source: Heller, M.C., Keoleian, GA. Assessing the sustainability of the US food system: A life cycle perspective. *Agricultural Systems* 2003;76:1007-1041

The Industrial Food System & Public Health

- Pollution from factory farms is harming the health of both workers and residents living downstream or downwind from these operations.
- New strains of foodborne pathogens (e.g., *Listeria* & toxigenic *E. coli*) have emerged in recent years, and long recognized pathogens have been causing more widespread harm
- The non-medical use of antibiotics in animal agriculture may be threatening the effectiveness of antibiotics in treating human disease by creating selective pressure for the emergence of antibiotic resistant bacteria

<u>Source:</u> Horrigan, L, Lawrence, RS, Walker, P. How sustainable agriculture can address the environmental and human health harms of industrial agriculture. *Environmental Health Perspectives* 2002;110(5):445-456.

The Industrial Food System & Public Health

- For more information, see the following American Public Health Association (APHA) Resolutions:
- 1) Helping Preserve Antibiotic Effectiveness by Stimulating Demand for Meats Produced without Excessive Antibiotics (Policy Number: 2004-13) http://www.apha.org/legislative/policy/2004/2004-13.pdf
- 2) Precautionary Moratorium on New Concentrated Animal Feeding Operations (Policy Number: 20037) http://www.apha.org/legislative/policy/2003/2003-007.pdf

Sustainable Agriculture

"Sustainable agriculture is a model of social and economic organization based on an equitable and participatory vision of development which recognizes the environment and natural resources as the foundation of economic activity."

Madden, JP, Chaplowe, SG, eds. For All Generations: Making World Agriculture More Sustainable. Glendale, CA: World Sustainable Agriculture Association; 1997.

Community Food System

"A collaborative effort to build more locally-based, self-reliant food economies – one in which sustainable food production, processing, distribution, and consumption is integrated to enhance the economic, environmental, and social health of a particular place."

Source: Feenstra, G.W. Creating space for sustainable food systems: Lessons from the field. *Agriculture and Human Values* 2002;19:99-106.

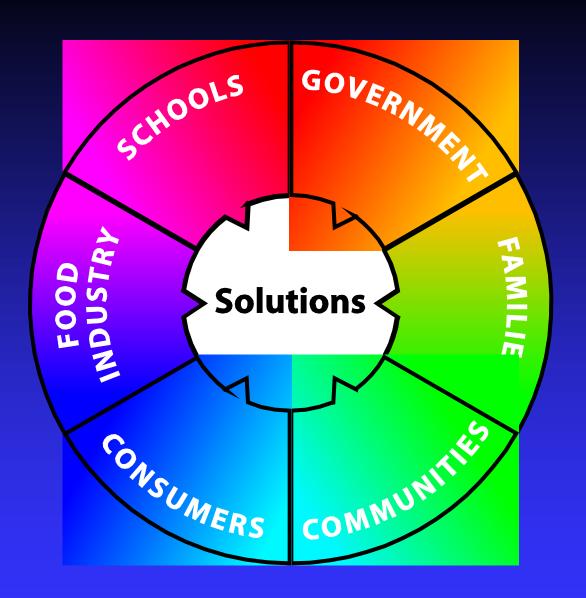
3-Stage Continuum to Improve Nutrition and Health Based on a Food Systems Approach

Stage 1: Initial Food Systems Change

Stage 2: Food Systems in Transition

 Stage 3: Food Systems Redesign for Sustainability

<u>Adapted from:</u> McCullum, C., Desjardins, E, Kraak, V. et al. Evidence-based strategies to build community food security. *J Am Diet Assoc* 2005;105(2):278-283.



Individual Action

Product Reformulation and Development



Business Practices

Wellness and Education Programs



Kraft Foods

- Developing an array of healthier products:
 - Nabisco 100 calorie packs
 - Numerous trans fat free products
 - CarbWell salad dressings
 - Balance GoMix



 Set criteria for Kraft products sold in School vending machines

Collective Action



A non-profit organization supported by the food and beverage industry; guided by a distinguished board of authorities in nutrition, health, fitness, education and research; and dedicated to advocating sustainable solutions to achieving a health balance for life.

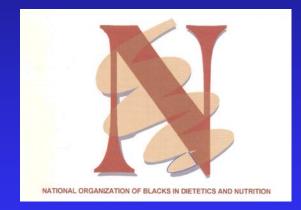
- Broad-based
- Inclusive
- Solutions-focused

Who Is ACFN?

- 83 Member organizations and growing
- 27 Advisory Board professionals
- 16 Executive Board members











HISPANIC HERITAGE AWARDS FOUNDATION®

ACFN 2004 Program Objectives

- To serve as a resource for collaboration among professionals, government and the media
- To act as an advocate for lasting initiatives to help solve the obesity problem
- To promote programs that are comprehensive, positive and solutionsfocused

ACFN 2004 Initiatives

- Serve as a resource
 - www.acfn.org
 - ◆ Journalist's Notebook
 - **♦** White Pap

"EXERCISE AND WELLNESS ARE NOT BUT A BETTER WAY TO LIVE.

TAKING ACTION

JUST A HEALTHIER CHOICE,

SEARCH

LATEST **NEWS** · Lorem ipsum dolor

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nutrition, and to deliver information about balance and lifestyle choices based on the bes ts a cross-section of food, beverage and consumer pr ns dedicated to improving the health of all Americans

American Council For Fitness & Nutrition

ABOUT US

SUPPORTING

ASK DR EINN

OUICK TIPS

EVENTS

SEARCH

RESOURCES

TAKING ACTION

HELPFUL RESOURCES

THE STATE OF PHYSICAL ACTIVITY AND NUTRITION EDUCATION IN **WEST VIRGINIA**

According to a 2001 study conducted by the Centers for Disease Cor Prevention (CDC), nearly 25 percent of West Virginia citizens are obsurprisingly, the study found that nearly 67 percent of West Virginia a engage in physical activity at the recommended level.

Currently, West Virginia uses the National Standards for Physical Education as a model for its physical education standards, and conducts a physical education assessment annually. Elementary and middle school students are required to participate in physical education each year with no time requirements. Only one unit is required to graduate high school.

MORE INFORMATION

DOWNLOAD PDF FILE

Steps to a HealthierUS Ask Dr. Finn

he American Council for Fitness and Nutrition works with partners in pursuit of obesity solutions, to raise awareness of the nutrition education and physical activity programs designed to help individuals and their communities, and to demonstrate and communicate industry actions and

commitment to finding effective solutions.

MEDIA CENTER

American Council For Fitness & Nutrition

ACFN STATEMENT IN RESPONSE TO JAMA REPORT ON DIET AND INACTIVITY

WASHINGTON D.C. MARCH 9, 2004

Today's announcement by the Journal of the American Medical Association (JAMA) reinforces the American Council for Fitness and Nutrition's (ACFN) call for improved health through energy balance

ACFN concurs with JAMA's conclusion that "...interventions to...improve diet and increase physical activity must become much higher priorities in the public health and healthcare systems."

"ACFN believes that maintaining a healthy weight and achieving optimal health requires a balance of physical activity and nutrition tailored to meet each individual's needs, preferences and lifestyle," said ACFN Chair Susan Finn, Ph.D., RD. "Balancing calorie intake and energy output is essential to maintaining a healthy body weight.

ACFN is a vocal advocate of local, state and national programs that seek to improve nutrition education and encourage increased physical activity, such as:

- The nationwide America On the Move™ program that aims to initiate and maintain measurable behavior changes to foster healthy lifestyles
- The Carol M. White Physical Education for Progress (PEP) grants distributed by the Department of Education to help schools improve physical education programs; and

ies and promotes programs that seek to address the unique needs of inn continued. "Such initiatives should empower parents to make the best personal health and nutrition goals and to help their children learn nutrition

. "Healthy Horizons," a community-based program in Owensboro, Ky., that engages all residents rove health and reduce obesity

will sustain a lifetime of good health."

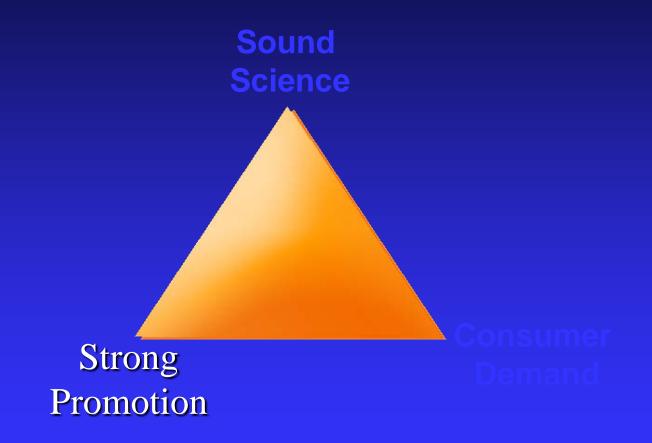
ACFN 2004 Initiatives

- Act as an advocate
 - Support policies that encourage nutrition and physical education in schools
 - –Improved Nutrition and Physical Activity Act (IMPACT)
 - -Childhood Obesity Prevention Act
 - –Physical Education for Progress(PEP) Grants
 - -HealthierUS

Outreach to Women

- Comprise 51% of the population.
- Make 75% of all household healthcare decisions.
- Are the primary food shoppers in 75% of households.
- Comprise 70% of pharmacy customers.

What It Takes to Make a Product or Program Successful



What Are the Partnership Opportunities for SNE and ACFN?



Public Health Approach

Create public policies that support desired change

■People tend to "go with the flow"

Older Adults

How are dietary recommendations used for older people?

Older Adults

Because most older people have or are at high risk for nutrition-related chronic diseases, they have a tremendous amount to gain from following a "healthy diet."

Regular contact with health professionals

Active involvement in determining goals of intervention

Focus on behavior modification

Hands-on activity

Incentives

Messages

Limited in number

Simple

Targeted

Practical

Reinforced

Individual

Social environment

Physical environment

Focus of the talk

- What is the Dietary Guidelines Advisory Committee (DGAC)
 - ♦ Its mandate
 - ♦ How it does its job
- The challenge: Translating dietary guidance
 - \rightarrow nutrient \rightarrow food based
 - ◆ Food based → dietary patterns
 - ◆ Examples, fiber and sugar

Overview of how the DGAC does its job

- Five public meetings last one will be August 11, 2004
- Written public comments solicited, reviewed by committee and staff
- Listened to oral public comments
- Workload divided among subcommittees which reported back to the full committee at public meetings
- Each subcommittee assisted by one or more staff.

Overview of how the DGAC does its job

- Science review committee (Janet King, Larry Appel, Joanne Lupton) review all of the committee work for consistency and adherence to science-based standards.
- Consulted outside experts where deemed necessary.
- Requested modeling of food patterns as required.
- Used an evidence-based system to come to conclusive statements on all questions asked.

Who uses an evidence-based system?

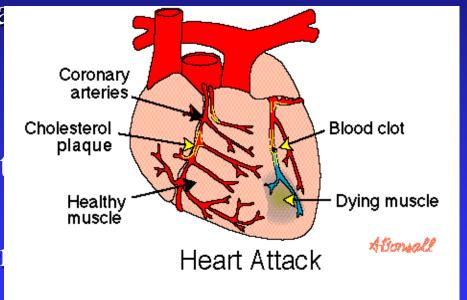
- Professional organizations that issue evidence-based practice guidelines
 - ◆ American Dietetic Association
 - ◆ American Diabetes Association
 - ◆ American Heart Association

Myers, EF et al. (2001) Evidence guides vs protocols: What's the difference? J Am Diet Assoc 101: 1085-1090.

Two examples of molecules to food patterns (Example #1: fiber)

There is (for the first time) a DRI value, a AI, for fiber

- ◆ 14 g/1000 Kcals
- The AI is based on a strength of the relationship between fiber and decreased risk of CHD



From a DRI to a food-based recommendation

- Major sources include soft drinks, cakes, cookies, pies, fruitades, fruit punch, dairy desserts, and candy.
- There may be a difference in compensation from sugar in beverages vs sugar in solid foods.
- "Added sugars" generally result in added calories.



What FP usually advice Patient

- Avoid sour and cold foods
- Eat eggs and meat
- Drink more water

That's it. Science of diet & Nutrition is over!

